Abstract (Clean Copy)

1,3-butadiene is obtained by extractive distillation with a selective solvent from a C₄ cut

comprising C₄ acetylenes as secondary components in a dividing wall column having a

bottom evaporator, in which a dividing wall is disposed in the longitudinal direction of the

column to form a first subregion, a second subregion and a lower combined column region.

The column is disposed upstream of an extractive wash column. The energy input into the

dividing wall column via the bottom evaporator is controlled in such a way that a bottom

stream containing solvent, C₄ acetylenes and 1,3-butadiene restricted such that the loss of

1,3-butadiene is economically acceptable, is drawn off and fed to an acetylenes outgasser

where the C₄ acetylenes are stripped out overhead and purified solvent is obtained as the

bottom stream.

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